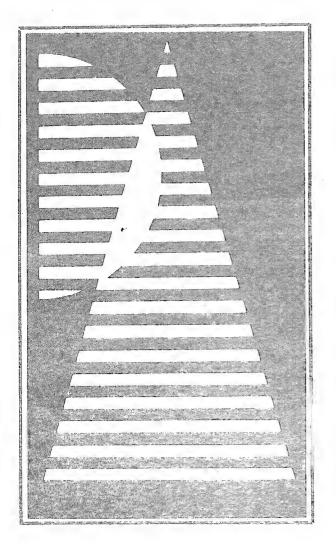
SBA

U.S. Small Business Administration
Office of Innovation, Research and Technology

SBIR Pre-Solicitation Announcement



This issue contains information on SBIR Solicitations of the following Federal participating agencies.

National Science Foundation

U.S. Department of Transportation

U.S. Department of Health & Human Services

National Aeronautics and Space Administration

MARCH 1989

NOTICE TO READERS OF PSA

For information on upcoming
Federally sponsored and
co-sponsored SBIR conferences,
please see Page 34.

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I. MASTER SCHEDULE OF SBIR SOLICITATIONS FISCAL YEAR 1989

AGENCY	RELEASE DATE	CLOSING DATE		
Department of Agriculture	July 1, 1989	September 1, 1989		
Department of Commerce	October 15, 1988	January 15, 1989		
Department of Defense	October 1, 1988	January 6, 1989		
Department of Education	January 13, 1989	March 17, 1989		
Department of Energy	November 18, 1988	February 16, 1989		
Department of Health & Human Services:				
 Public Health Service Health Care Finance Administration (PHS/HCFA) 		December 9, 1988		
2. Public Health Service (PHS)	January 15, 1989	April 15, 1989 August 15, 1989 December 15, 1989		
Department of Transportation	February 13, 1989	May 1, 1989		
Environmental Protection Agency	November 10, 1988	January 10, 1989		
National Aeronautics & Space Administration	April 14, 1989	June 16, 1989 *		
National Science Foundation	April 3, 1989	June 19, 1989		
Nuclear Regulatory Commission	January 13, 1989	March 27, 1989		

NOTE: The above dates may be subject to change by the particl-pating agencies due to administrative reasons.

^{*} Change from dates cited in December 1988 PSA.

II. THE SBIR PROGRAM

The <u>Small Business Innovation Research Program began in 1982</u> with the enactment of the <u>Small Business Innovation Development Act.</u>

On October 6, 1986, legislation was signed which reauthorized the program through September 30, 1993.

The Act required agencies of the Federal Government with extramural budgets for research or R&D in excess of \$100 million to establish SBIR Programs. Funding for the program is derived from fixed percentages of each participant agency's R&D budget.

There are presently $\underline{11}$ Federal agencies participating in SBIR. They are listed on page $\underline{1}$.

Since the beginning of this program, there have been approximately 12,000 SBIR awards totalling \$1.3 billion.

III. THE THREE PHASES OF THE SBIR PROGRAM

SBIR is a highly competitive award system consisting of the following three phases:

PHASE I - Is to evaluate the scientific technical merit and feasibility of an idea. Awards of up to \$50,000 with a period of performance normally not to exceed six months are involved.

ONLY PHASE I AWARDEES ARE ELIGIBLE FOR CONSIDERA-TION OF AWARD OF PHASE II.

- PHASE II is to expand on the results of and further pursue the development of Phase I. Awards of \$500,000 or less with a period of performance normally not to exceed two years are involved.
- PHASE III is for the commercialization of the results of Phase II and requires the use of private or non-SBIR Federal funding. No SBIR funds may be utilized in this Phase.

IV. PURPOSE OF THE SBIR PRE-SOLICITATION ANNOUNCEMENT (PSA)

The PSA provides small business firms with advance information on upcoming SBIR solicitations about to be released by Federal agencies participating in the Program.

SBA usually publishes PSA's quarterly -- in March, June, September and December of each year.

PSA's contain data on all of the SBIR solicitations scheduled for release during the following 3-month period. For example, a PSA published in December would include details on SBIR solicitations to be released in January, February and March.

They also may contain Information on previously announced SBIR solicitations that are still open.

The listing of topics available begins on page 6. As a potential SBIR offeror, if you should find a topic of interest to your firm, please contact the Federal agency designated for that topic to obtain a copy of the applicable SBIR solicitation.

SBA does not distribute copies of SBIR solicitations.

V. <u>ELIGIBILITY REQUIREMENTS TO PARTICIPATE</u> <u>IN THE SBIR PROGRAM</u>

<u>Small Business</u>. A small business concern is one that, at the time of award of SBIR Phase I and Phase II funding agreements, meets the following criteria.

- Is Independently owned and operated, is not dominant in the field of operation in which it is proposing, has its principal place of business located in the United States and is organized for profit;
- is at least 51 percent owned, or in the case of a publicly owned business, at least 51 percent of its voting stock is owned by United States citizens or lawfully admitted permanent resident aliens;
- 3. Has, including its affiliates, a number of employees not exceeding 500, and meets the other regulatory requirements found in 13 CFR Part 121. Business concerns, other than investment companies licensed, or state development companies qualifying under the Small Business investment Act of 1958, 15 U.S.C. 661, et seq., are affiliates of one another when either

V. ELIGIBILITY REQUIREMENTS TO PARTICIPATE IN THE SBIR PROGRAM (continued)

directly or indirectly (A) one concern controls or has the power to control the other; or (B) a third party or partles controls or has the power to control both. Control can be exercised through common ownership, common management, and contractual relationships. The term "affiliates" is defined in greater detail in 13 CFR 121. The term "number of employees" is also defined in 13 CFR 121. Business concerns include, but are not limited to, any individual, partnership, corporation, joint venture, association or cooperative.

VI. SBIR PROGRAM SOLICITATIONS - PROPOSALS - AWARDS

The simplified SBIR Program Solicitation process provides small business concerns with an excellent opportunity to propose innovative ideas that meet specific Research and R&D needs of the Federal Government while potentially opening the door to future commercialization.

SBIR Program Solicitations contain detailed information on:

Research Topics

Instructions for the preparation of SBIR proposals

Release and closing dates

To obtain sufficient information on which to submit an SBIR proposal, you need to contact the designated Federal agency and obtain a copy of the applicable solicitation. Copies of these solicitations are not available until their stated release date.

SBIR Phase | Proposais are limited to (25) pages.

Under the SBIR Program, proposals are evaluated competitively by the participating Federal agencies to determine the best Innovative solutions to the designated technical topics.

SBIR Awards are made on a competitive basis. The selection criteria for this competitive process are further explained in the SBIR Program Solicitations released by each of the Federal agencies participating in the program.

Information on these Federal contact points is contained in each issue of the SBIR Pre-Solicitation Announcement.

VII. The SBA/SBIR MAILING LIST

There is no single mailing list for all SBIR Program Solicitations.

To obtain a copy of an SBIR solicitation, a small business concern needs to contact the designated Federal agency. The SBA Pre-Solicitation Announcement cites the appropriate Federal contact points Where copies of SBIR solicitations may be requested.

The SBA Office of innovation, Research and Technology maintains a computerized listing of firms that are sent copies of the SBIR Pre-Solicitation Announcement on a regular basis. If you wish to be added to this list, please contact us at the following address:

Office of Innovation, Research and Technology U.S. Small Business Administration 1441 L Street, N. W., Room 500 Washington, D. C. 20416 (202) 653-6458

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

FY 1989 SBIR PROGRAM SOLICITATION

(Repeated from December 1988 issue of PSA)

The <u>RELEASE DATE</u> for this SBIR Program Soilcitation is:

January 16, 1989

The <u>CLOSING DATES</u> for the receipt of <u>PHASE !</u> proposals are:

April 15, 1989 August 15, 1989 December 15, 1989

Request for copies of this solicitation are available from:

PHS SBIR Solicitation Office 3202 Monroe Street Suite 300 Rockville, MD 20852 (301) 231-6378

Questions on general policies, procedures and administration of the SBIR Program should be directed to:

Ms. Lliy O. Engstrom
Director, Office of Special Programs
and initiatives
National institutes of Health
Building 31, Room 9B54
Bethesda, MD 20205
(301) 496-1968

The Public Health Service hopes to make approximately 300 awards in this Phase I cycle. Awards will be in average amounts of \$50,000 each.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

NATIONAL INSTITUTES OF HEALTH

National Institute on Aging (NIA)

Biomedicai and Clinical Research on Aging

U. S. DEPARTMENT OF HEALTH & HUMAN SERVICES

National institute on Aging (NIA) (cont'd)

Behavioral and Social Research Program

Neuroscience and Neuropsychology of Aging

Contact:

Dr. Mirlam F. Keity Bullding 31, Room 5C-02 Bethesda, MD 20892 (301) 496-9322

National institute of Ailergy and Infectious Diseases (NIAID)

Allergy, Immunology, and Transplantation

Microbiology and Infectious Diseases

Acquired immunodeficiency Syndrome

Contact:

Dr. John W. Diggs Westwood Building, Room 703 Bethesda, MD 20892 (301) 496-7291

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

Arthritis and Musculoskeletal and Skin Diseases

Contact:

Dr. Steve Hausman Westwood Buliding, Room 403 Bethesda, MD 20892 (301) 496-7495

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

Diabetes, Endocrinology and Metabolic Diseases

Digestive Diseases and Nutrition

National institute of Diabetes and Digestive and Kidney Diseases (NIDDK) (cont'd)

Kidney, Urologic and Hematologic Diseases

Contact:

Dr. John Garthune Westwood Bullding, Room 637 Bethesda, MD 20892 (301) 496-7793

National Cancer institute (NCI)

Cancer Biology and Diagnosis

Contact:

Ms. Brenda Underwood 6120 Executive Piaza Boulevard Executive Piaza South - Room 642B Rockville, MD 20892 (301) 496-7028

Cancer Etiology and Prevention

Contact:

Dr. John A. Cooper 6130 Executive Piaza Boulevard Executive Piaza North - Room 535 Rockviile, MD 20892 (301) 496-1882

Cancer Treatment

Contact:

Dr. Mace Rothenberg Building 31, Room 3A49 Bethesda, MD 20892 (301) 496-6711

National Cancer Institute (NCI) (cont'd)

Cancer Prevention and Control

Contact:

Dr. James Callahan Bullding 31, Room 10A49 Bethesda, MD 20892 (301) 496-1071

National Institute of Child Health and Human Development (NICHD)

Population Research

Research for Mothers and Children

Contact:

Ms. Hildegard Topper Bullding 31, Room 2A03 Bethesda, MD 20892 (301) 496-0104

National Institute of Dental Research (NIDR)

Carles

Periodontal Diseases

Cranlofacial Anomailes

Restorative Materials

Pain Control and Behavloral Studies

Oral Ulcerative Diseases

Contact:

Dr. Thomas Valega Westwood Bullding, Room 510 Bethesda, MD 20892 (301) 496-6324

National institute of Environmental Health Sciences (NIEHS)

Test Methods for Assessing the Biological Effects of Environmental Agents

Specialized Products for Use in Toxicology Studies

Development of Products/Devices for Measuring Exposure to Toxic Agents

Development of Alternative Designs/Methods for Toxicity/Carcinogenicity Assessment

Contact:

Dr. Michael J. Galvin, Jr. P. O. Box 12233
Research Triangle, NC 27709 (919) 541-7825

National Eye Institute (NEI)

Retinal and Choroldal Diseases

Corneal Diseases

Cataract

Glaucoma

Strabismus, Ambiyopla, and Visual Processing

Low Vision and Rehabilitation

Contact:

Dr. Ralph Helmsen Bullding 31, Room 6A48 Bethesda, MD 20892 (301) 496-5884

National Institute of General Medical Sciences (NIGMS)

Cellular and Molecular Basis of Disease

Genetics

Pharmacological Sciences

Physiology and Blomedical Engineering

Contact:

Dr. David A. Wolff Westwood Building, Room 953 Bethesda, MD 20892 (301) 496-7061

National Heart, Lung and Blood Institute (NHLBI)

Heart and Vascular Diseases

Lung Diseases

Blood Diseases and Resources

Contact:

Dr. Henry Roscoe Westwood Bullding, Room 7A17 Bethesda, MD 20892 (301) 496-7225

National Institute of Neurological and Communicative Disorders and Stroke (NINCDS)

Communicative Disorders

Fundamental Neurosciences

Stroke and Trauma

Convulsive, Developmental and Neuromuscular Disorders

National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) (cont'd)

Demyelinating, Atrophic and Dementing Disorders

Contact:

Mr. Edward Donohue Federal Bullding, Room 1016 Bethesda, MD 20892 (301) 496-4188

Division of Research Resources (DRR)

Research and Development in Instrumentation and Specialized Technologies for Biomedical Research

Research in Laboratory Animal Sciences

Development of Biomedical Research Methods Employing Lower Organisms, Tissue/Celis in Culture or Mathematical and Computer Simulations

Development of Systems (Non-Software) or Devices for Patient Research Monitoring of Physiologic or Biochemical Parameters

Contact:

Dr. James O'Donnell Bullding 31, Room 5B03 Bethesda, MD 20892 (301) 496-6023

National Center for Nursing Research (NCNR)

Development and Testing of Technology that Enhances the Effectiveness of Nursing Care Delivery

Development of Information Systems Software for Managerial and Clinical Nursing Services

Development of Programs to Delay or Deter Onset of Smoking In Nursing Students

Contact:

Dr. Janet Helnrich Bullding 31, Room B1CO2 Bethesda, MD 20892 (301) 496-0526

ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION (ADAMHA)

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

Pharmacology

Identification

Treatment Compliance

Prevention

Basic Research Tools

Contact:

Dr. Laurie Foudin Parklawn Building, Room 14C-20 Rockville, MD 20857 (301) 443-4223

National institute on Drug Abuse (NIDA)

Quantitative Analysis for Drugs in Body Fluids

Opioid Peptides

Performance and Drug Concentrations of Abused Substances

Perinatal Effects of Abused Substances

Methodological Study of Epidemiology of Drug Abuse

Drug Use in the Workplace

Training in Drug Abuse Treatment Techniques

Clinical Evaluation Instruments and Technology

Drug Delivery Systems

Prevention Research

Etiological Research

Prevention Program Assessment Methods

ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION (ADAMHA)

National Institute on Drug Abuse (NIDA) (cont'd)

Employee Program Assessment Methods

Technology to Address the Problem of AIDS in IV Drug Users Special Needs Populations

Contact:

Ms. Jacqueline P. Downing Parkiawn Bullding, Room 11A-33 Rockville, MD 20857 (301) 443-1056

National Institute of Mental Health (NIMH)

Instrumentation for Basic and Clinical Research

Brain and Body Imaging Techniques

Neuromolecular Bloiogy and Chemistry

Pharmacology

Systems Development

Behavioral Science Research and Development

Health and Behavior

Contact:

Mr. James Moynihan Parklawn Building, Room 11-95 Rockville, MD 20857 (301) 443-3107

CENTERS FOR DISEASE CONTROL (CDC)

National Institute for Occupational Safety and Health (NIOSH)

Prevent or Contain Hazardous Workplace Emissions at their Source

Remove Emissions From the Pathway Between the Source and the Worker

Control Exposure with Barriers Between the Worker and the Hazardous Work Environment

Evaluate Behavioral, Motivational, and Ergonomic Considerations

Develop Control Monitoring Instruments and Techniques

Develop Mathematical Dispersion Models to Predict Concentrations of Hazardous Chemicals

investigate Fundamental Dust Generations Mechanisms involved in the Flow of Powdered and Granulated Solid Materials

Develop System Safety Techniques for Maintenance and Start-Up/Shut-Down of Machine Operations

improve Design of Industrial Hand Tools to Prevent Musculoskeletal impairment

Design and Develop New and Innovative Respiratory Protective Devices

Develop End-of-Service-Life Indicators for Sorbents of Air Purifying Respirators

Develop Test Techniques and Models to Predict General Respirator Performance

Investigate Methods to Increase Effective Protection Factors in the Field Under Actual Workplace Conditions

Develop Methods for Determining Sorbent and Fliter Efficiencies

CENTERS FOR DISEASE CONTROL (CDC)

National Institute for Occupational Safety and Health (NIOSH) (cont'd)

Develop Low-Resistance, High-Efficiency Particulate Filtration Methods

Contact:

Dr. Roy Fleming
Building 1, Room 3053
M. S. D30
1600 Clifton Road, N. E.
Atlanta, GA 30333
(404) 639-3343

FOOD AND DRUG ADMINISTRATION (FDA)

Investigate Medical Applications of Small Angle X-Ray Scattering (Ray Scattering), Specifically Determining the Possibility of Tissue Differentiation Using this Effect

Develop an Instrument for Non-Contact Measurement of Hermetic Seai Integrity of Implantable Electronic Packages Using Correlation and Holographic Techniques

Develop an Optical Non-Destructive Method for Rapid Detection and Measurement of Condom Defects introduced in Manufacturing

Determine the Accuracy and Reproducibility of Serum Choiesterol Levels as Measured in Different Laboratory Facilities

Survey Selected Departments In Accredited Schools of Public Health for Current Topics of Approved Masters and Doctoral Research Theses Relevant to Medical Device Safety and Effectiveness

Determine the Efficiency of Different Hemodialysis Machines Given the use of identical Dialyzers, as Measured by Established Performance Standards

Measure Potentially Harmful Tissue By-Products In the Laser Plume/Debris During Clinical Applications

Examine Leakage of Viruses Through Examination and Surgical Gloves

Provide Statistical Support to Evaluate the Effects of Disinfectants on the Performance of Actual Use Hemodialyzers

Provide Statistical Support in the Collaboration Studies with CDRH Components in the Study of Toxic Effects of Materials Used in Medical Devices

Examine inactivation Kinetics (rate) and extent of Different HIV Strains to Different Disinfectants of Relevance to the Medical Devices

Evaluation of Cavitation Around Prosthetic Heat Valves to Adequately Determine Potential Cavitation Damage to Mechanical Heart Valves

FOOD AND DRUG ADMINISTRATION (FDA) (cont'd)

investigate the Porosity of Prophylatic Membranes

Evaluate Non-Dedicated Blood Gas Controls and Reagents for Blood Gas Instrumentation

Developments of Systems Using Microorganisms to Understand Detoxification Pathways in Animals, Soli, and/or Water

Computer Systems for Control of Feeding, Animal Handling, and Pathology

Definition and Modeling of Metabolic Pathways

Development of Techniques to Alter those Metabolic Pathways to Modulate Toxicity

Computer Systems Development to Model Metabolic Pathways of Specific Toxic Chemicals

Computer Modeling Systems to Predict Blochemical Interactions in Human Systems

A Seriological Marker Test for Identifying Hepatitis Type Non A or Non B Antigens

Development of New Analytical Methodology for Conducting Bloavallability and Bloequivalence Drug Studies

New Methods for Assessing the Safety and Efficacy of Drugs

Evaluation of Post-Marketing Surveillance of Drugs

Development of Analytical Methods and Animal Models for Animal Drugs

Contact:

Ms. Olia Hopkins
Division of Contracts and Grants Management
Office of Management and Operations
Food and Drug Administration
Park Building, Room 320
5600 Fishers Lane
Rockville, MD 20857
(301) 443-6170

OFFICE OF ADOLESCENT PREGNANCY PROGRAMS (OAPP)

Development of Materials to Help Teens Consider Adoption as Positive Option

Development of Materials that Promote Abstinence from Adolescent Premarital Sexual Activity and Uphold Sexuality In the Context of Marriage

Development of Innovative Research Techniques or Measuring Instruments for Research in Pregnancy Prevention Among Adolescents

Development of Techniques to Improve the Quality and Analysis of Data Used to Measure the Effectiveness of Adolescent Pregnancy Programs

Contact:

Ms. Eugenia Eckard
Office of Adolescent Pregnancy Programs
HHH Bullding, Room 731E
200 Independence Avenue, S. W.
Washington, DC 20201
(202) 245-1181

U. S. DEPARTMENT OF TRANSPORTATION

FY 1989 SBIR PROGRAM SOLICITATION

The <u>RELEASE DATE</u> for this SBIR Program Solicitation is:

February 13, 1989

The <u>CLOSING DATE</u> for the receipt of <u>PHASE I</u> proposals is:

May 1, 1989

To obtain a copy of this FY 1989 SBIR Solicitation, please submit a written request to:

DOT SBIR Program Office, DTS-23
U. S. Department of Transportation
Transportation Systems Center
Kendail Square
Cambridge, MA 02142
Attention: Dr. George Kovatch
(617) 494-2051

All other SBIR-related inquiries should also be directed to the above address.

It is estimated that approximately $\underline{10}$ Phase I awards with an anticipated potential maximum of $\underline{16}$ awards, valued at up to \$50,000 each, will be made under this Fiscal Year 1989

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PROGRAM SOLICITATION FOLLOW:

FEDERAL AVIATION ADMINISTRATION

Alr Traffic Control/Flight Services

- 1. Air Traffic Controller/Automation Communication
- Application of Artificial Intelligence to the Maintenance Control Center
- 3. PC-Based Airspace Design and Procedural Development Tool

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION (cont'd)

Aircraft Safety

- 4. Advanced De-Icing Fluids for General Aviation Aircraft
- 5. Aging Aircraft Corrosion Indicator
- 6. Improvement of Eddy Current Nondestructive Testing Through Application of Automated Techniques and Artificial Intelligence
- Certification/Safety Assessment of Flying Qualities and Pilot Workload for Advanced Digital Fly-By-Wire Transport Aircraft
- 8. Development of Low Heat Release Composites for Aircraft Interiors

Alrport Technology

- 9. Airport Surface Traffic Automation
- 10. Video Image Processing of Airport Pavement Distress

Aviation Security

- 11. Explosives Vapor Sampling
- 12. Innovative Passenger Screening for Weapons
- 13. Security Checkpoint Optimization
- 14. Remote Identification Verification System

FEDERAL HIGHWAY ADMINISTRATION

Structures

1. Shear Stress Gage for Hydraulic Laboratory Use

Safety

2. The Use of New Materials for Roadside Safety Hardware

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION (cont'd)

Pavements

- Field Evaluation of Equipment to Verify Steel Placement in Portland Cement Concrete
- 4. In-Place Permeometer for Open-Graded Drainage Layers
- 5. Improved Larger Diameter Non-Corrodible Dowel
- 6. Alternative De-icing Materials

FEDERAL RAILROAD ADMINISTRATION

Rall Testing

Remote Detector Monitoring Device

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Remote Vehicle Identification and Speed Monitoring

 Application of High Performance Technology to Toll Road Speed Control and Vehicle Performance Monitoring

Safety Belt Applications

- 2. Safety Belt Buckie Device to Restrain Toddlers and Young Children
- Devices to improve the Comfort and Convenience of Safety Beits
- 4. "Buckle-Up" Education Program for Grammar School and Middle School Science Class Students

Medical Equipment Restraints

5. Crash Protection Accessories to Increase the Safety of Occupants with Special Medical Needs

Truck Driver Warning Systems

6. Vehicle/Object Detection Alongside Heavy Vehicles

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE U. S. DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (cont'd)

Motorcycle Safety

- 7. Accessories to increase the Safety of Motorcyclists
 Glare Reduction Systems
- 8. Development of Headlamp Glare Reduction Devices

UNITED STATES COAST GUARD

Law Enforcement Drug Detection

- 1. Cocalne/Heroin Drug Detection Technologies
- 2. Passive Surveillance System for Law Enforcement

Materials

3. Alternate Construction Materials

Major Ald System Management

- 4. Remote Site Secondary Power Research
- 5. Remote Site Power by Wave Energy

URBAN MASS TRANSPORTATION ADMINISTRATION

<u>Special Note:</u> No research topics are solicited in FY 1989 by the Urban Mass Transportation Administration

VIII. FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

FY 1989 SBIR PROGRAM SOLICITATION

The <u>RELEASE DATE</u> for this SBIR Program Solicitation is:

April 14, 1989

The <u>CLOSING DATE</u> for the receipt of <u>PHASE I</u> proposals is:

June 16, 1989

Name, address and phone number of NASA SBIR contact:

Mr. John A. Glaab SBIR Program Manager Code CR National Aeronautics and Space Administration Washington, DC 20546 Telephone: (202) 453-8702

NOTE: THOSE WISHING TO OBTAIN COPIES OF THE 89-1 SOLICITATION MUST WRITE TO THE SBIR PROGRAM OFFICE. TELEPHONIC REQUESTS CANNOT BE ACCEPTED.

NASA contact point for inquiries is also Mr. Glaab.

Estimated number and average dollar amounts of <u>Phase I</u> awards from the 89-1 Solicitation is approximately <u>220 awards</u> in amounts not to exceed \$50,000.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PHASE I PROGRAM SOLICITATION FOLLOW:

- 1. Aeronautical Propulsion and Power
- 2. Aerodynamics and Acoustics
- 3. Aircraft Systems, Subsystems, and Operations
- 4. Materials and Structures
- 5. Teleoperators and Robotics
- 6. Computer Sciences and Applications

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

- 7. Information Systems and Data Handling
- , 8. Instrumentation and Sensors
 - 9. Spacecraft Systems and Subsystems
- 10. Space Power
- 11. Space Propulsion
- 12. Human Habitability and Biology in Space
- 13. Quality Assurance, Safety and Check-Out for Ground and Space Operations
- 14. Satellite and Space Systems Communications
- 15. Materials Processing, Micro-Gravity, and Commercial Applications in Space

FEDERAL AGENCY SBIR SOLICITATION TOPICS AVAILABLE NATIONAL SCIENCE FOUNDATION

FY 1989 SBIR PROGRAM SOLICITATION

The <u>RELEASE DATE</u> for this SBIR Program Solicitation is:

April 3, 1989

The <u>CLOSING DATE</u> for the receipt of PHASE I proposals is:

June 19, 1989

Copies of the SBIR Solicitation may be obtained from:

National Science Foundation Forms & Publications Office 1800 G St., N. W., Room 232 Washington, D. C. 20550 Telephone: (202) 357-7861

SBIR-related inquiries may be addressed to:

Roland Tibbetts or Ritchie Coryell Program Managers, SBIR National Science Foundation 1800 G St., N. W., Room 1250 Washington, D. C. 20550 Telephone: (202) 357-7527

The National Science Foundation anticipates making approximately 160 Phase I awards in amounts not to exceed \$50,000.

THE FEDERAL RESEARCH TOPIC TITLES AVAILABLE UNDER THIS SBIR PHASE I PROGRAM SOLICITATION FOLLOW:

- 1. Physics
- 2. Chemistry
- 3. Materials Research
- 4. Mathematical Sciences
- 5. Astronomical Sciences

NATIONAL SCIENCE FOUNDATION

- 6. Atmospheric Sciences
- 7. Earth Sciences
- 8. Ocean Sciences
- 9. Polar Sciences and Operations
- 10. Celiular Blosciences
- 11. Molecular Blosciences
- 12. Biotic Systems and Resources
- 13. Behavioral and Neural Sciences
- 14. Social and Economic Sciences
- 15. Instrumentation and Resources
- 16. Advanced Scientific Computing
- 17. Computer and Computation Research
- 18. Networking and Communications Research and infrastructure
- 19. Microelectronic information Processing Systems
- 20. Information, Robotics and Intelligent Systems
- 21. Electrical, Communications and Systems Engineering
- 22. Design, Manufacturing and Computer integrated Engineering
- 23. Chemical, Blochemical and Thermal Engineering
- 24. Mechanics, Structures and Materials Engineering
- 25. Emerging Engineering Technologies
- 26. Critical Engineering Systems

IX. HOW TO OBTAIN THE SBIR PROPOSAL PREPARATION HANDBOOK

Coples of this publication may be obtained from the following regional offices of the U.S. Small Business Administration.

REGION 1 For Maine, New Hampshire, Vermont, Boston Massachusetts, Rhode Island and

Connect | cut

60 Batterymarch, 10th Floor

Boston, MA 02110

REGION II For New York, New Jersey, Puerto Rico New York and the Virgin Islands

> 26 Federal Plaza New York, NY 10278

REGION III For Pennsylvania, Delaware, Maryland, Philadelphia

Virginia, West Virginia and

Washington, DC Allendale Square 475 Allendale Road

King of Prussla, PA 19406

REGION IV For North Carolina, South Carolina, Atlanta

Georgia, Florida, Mississippi, Alabama, Tennessee and Kentucky 1375 Peachtree Street, N. E.

Atlanta, GA 30367-8102

REGION V For Ohlo, Indlana, Michigan, Illinols, Chlcago

Wisconsin and Minnesota

230 South Dearborn Street, Room 510

Chicago, IL 60604-1593

REGION VI For Louisiana, Arkansas, Texas,

Dallas Oklahoma and New Mexico

8625 King George Drive, Bldg., "C"

Dallas, TX 75235-3391

REGION VII For Missouri, Kansas, lowa and

Kansas Cltv Nebraska

911 Walnut Street, 13th Floor

Kansas Clty, MO 64106

HOW TO OBTAIN THE SBIR PROPOSAL PREPARATION HANDBOOK

REGION VIII For North Dakota, South Dakota, Denver

Colorado, Wyoming, Utah and Montana

999 18th Street, Sulte 701

Denver, CO 80202

REGION IX For California, Arizona, Nevada,

San Francisco Hawall, Guam

450 Golden Gate Avenue - Box 36044

San Francisco, CA 94102

REGION X For Oregon, Washington, Idaho and

Seattle Alaska

2615 4th Avenue, Room 440

Seattle, WA 98121

Please check the appropriate telephone directory under "U. S. Government" for telephone numbers.

X. SBA'S PROCUREMENT AUTOMATED SOURCE SYSTEM (PASS)

In addition, SBA's Office of Procurement and Technical Assistance has a Procurement Automated Source System (PASS) that maintains capability profiles of small businesses interested in Federal Government procurement opportunities. This system is used by Federal agencies and major prime contractors to identify small concerns with capabilities needed by the agencies or prime contractors. Being included in PASS could potentially lead to a contract or subcontract. For further information on the PASS program, please contact any one of the SBA Regional Offices listed on page 28 of this publication.

XI. PARTICIPATING FEDERAL AGENCY SBIR REPRESENTATIVES

DEPARTMENT OF AGRICULTURE

Dr. Charles F. Cleland SBIR Coordinator USDA/CSRS/CRGO/SBIR Room 323-J, Aerospace Bldg. Washington, DC 20251-2200 (202) 447-7002

DEPARTMENT OF COMMERCE

Mr. James P. Maruca
Director, Office of Small and
Disadvantaged Business Utilization
U. S. Department of Commerce
14th and Constitution Avenue, N. W.
HCHB, Room 6411
Washington, DC 20230
(202) 377-1472

Mr. Edward V. Tlernan DOC SBIR Program Manager Sultland Professional Center SPC, Room 307 Sultland, MD 20233 (301) 763-4240

DEPARTMENT OF DEFENSE

Mr. Robert Wrenn SBIR Coordinator OSD/SADBU U. S. Department of Defense The Pentagon - Room 2A340 Washington, D. C. 20301-3061 (202) 697-1481

PARTICIPATING AGENCY SBIR REPRESENTATIVES

DEPARTMENT OF EDUCATION

Mr. John Christensen SBIR Program Coordinator U. S. Department of Education Room 602B 555 New Jersey Avenue, N. W. Washington, D. C. 20208 (202) 357-6065

DEPARTMENT OF ENERGY

Ms. Gerry Washington SBIR Spokesperson - ER-16 C/O SBIR Program Manager U. S. Department of Energy Washington, D. C. 20545 (301) 353-5867

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Mr. Richard Clinkscales
Director, Office of Small and Disadvantaged
Business Utilization
Office of the Secretary
U. S. Department of Health and Human Services
Washington, D. C. 20201
(202) 245-7300

DEPARTMENT OF TRANSPORTATION

Dr. George Kovatch
Chief, University Research & Technology
Innovation Office (DTS-23)
U. S. Department of Transportation
Transportation Systems Center
Kendall Square
Cambridge, MA 02142
(617) 494-2051

PARTICIPATING AGENCY SBIR REPRESENTATIVES

ENVIRONMENTAL PROTECTION AGENCY

Mr. Walter H. Preston SBIR Program Manager Research Grants Staff (RD-675) Office of Research and Development Environmental Protection Agency 401 M Street, S.W. Washington, D. C. 20460 (202) 382-7445

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Mr. Harry Johnson
Director, SBIR Office - Code CR
National Aeronautics and Space Administration
600 Independence Avenue, S. W.
Washington, D. C. 20546
(202) 453-8702

NATIONAL SCIENCE FOUNDATION

Mr. Roland Tibbetts
Mr. Ritchie Coryell
SBIR Program Managers
National Science Foundation
1800 G Street, N.W.
Washington, D. C. 20550
(202) 357-9666

NUCLEAR REGULATORY COMMISSION

Mr. William E. Forehand
SBIR Program Representative
Program Management, Policy Development
and Analysis Staff
Office of Nuclear Regulatory Research
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
(301) 492-3625

XII. UPCOMING SBIR CONFERENCES AND/OR SEMINARS

ALL INQUIRIES CONCERNING THESE CONFERENCES SHOULD BE DIRECTED TO THE CONTACT POINTS CITED BELOW.

NOTE:

Only SBIR conferences/seminars sponsored by the SBIR participating agencies or SBIR conferences/seminars sponsored or co-sponsored by the U.S. Small Business Administration will be considered for publication in the SBIR Pre-Solicitation Announcement.

FEDERAL HIGH TECH '90

The National Science Foundation/Department of Defense

INTERAGENCY CONFERENCES

ON FEDERAL R&D

FOR

HIGH TECH FIRMS

<u>WITH</u>

500 OR FEWER EMPLOYEES

LOS ANGELES, CA October 10-12, 1989 Los Angeles Biltmore Hotel WASHINGTON, DC November 13-15, 1989 Sheraton Premier Hotel Tyson's Corner, VA

For further information on these conferences, please call: Federal High Tech Hot-Line -- (703) 941-4490

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

EIGHTH ANNUAL CONFERENCE ON FEDERAL, STATE AND INDUSTRIAL RESEARCH DEVELOPMENT OPPORTUNITIES IN MICHIGAN

DATE:

Tuesday, April 25, 1989

LOCATION:

Sheraton Oaks Hotel

Novi, Michigan

I-96 and Novi Road (Exit #162)

FEE:

\$60 for the first registration, \$40 for all

additional registrations

REGISTRATION: MERRA Small Business Development Center

328 Executive Plaza 1200 6th Street Detroit, Mi 48226

Contact: Mark Clevey

MERRA Vice President

(313) 964-5030

SBA CONTACT:

Allen P. Cook, ADD/BD

U. S. Small Business Administration

515 McNamara Buliding 477 Michigan Avenue Detroit, Mi 48226 (313) 226-6075

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

ILLINOIS SMALL BUSINESS INNOVATION RESEARCH SEMINAR

DATE:

May 12, 1989

LOCATION:

219 S. Dearborn Street, Room 1220

Dirksen Federal Building

Chicago, IL

ATTENDEE FEE:

\$50.00

AGENDA:

How Does The SBIR Program Work For You

The Experience of an SBIR Application

The Support for Your SBIR Applications

Funding Programs to Leverage Your SBIR Funds

REGISTRATION:

The Support Center of Chicago 166 W. Washington, 5th Floor

Chicago, IL 60602

Contact: Totsle Cooper

(312) 606-1530

SBA CONTACT:

Arnold Ochakoff

U. S. Small Business Administration

219 S. Dearborn St., Room 437

Chicago, Illinois 60604

(312) 353-5427

UPCOMING SBIR CONFERENCES AND/OR SEMINARS

1989 WISCONSIN SMALL BUSINESS INNOVATION AND RESEARCH CONFERENCE

DATE:

JUNE 21, 1989

TIME:

8:30 a.m. to 4:30 p.m.

LOCATION:

PFISTER HOTEL

424 E. Wisconsin Avenue Milwaukee, Wi 53202

REGISTRATION:

For detailed information on this conference

contact:

State of Wisconsin Department of Development

123 W. Washington Avenue

P. O. Box 7970 Madison, Wi 53707

Caroline Garber

Director, SBIR Program

(608) 267-9383

SBA CONTACT:

Eric Meissner

U. S. Small Business Administration

Room 213

212 Er. Washington Avenue

Madison, WI 53703 (608) 264-5518

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